

Abstract of the Disclosure:

A mobile communication system has a plurality of mobile stations and a base station which includes a plurality of antennas, a frequency shift portion, a combining portion, a receiving portion and a signal processing portion. The antenna receives radio waves transmitted by the mobile stations. The frequency shift portion shifts the received signal with a frequency corresponding to each of the antennas. The combining portion determines the shifted signal as a combining signal. The receiving portion converts the combining signal in frequency to make an intermediate frequency signal, and converts the intermediate frequency signal into a digital signal. The signal processing portion includes spreading demodulation means, judging means, and fading compensation means.